

Session Program

22-27 Oct 2018

27th IAEA Fusion Energy Conference - IAEA CN-258

P6 Posters

Mahatma Mandir Conference Centre
Gandhinagar (nearest Airport: Ahmedabad), India

Thursday 25 October

14:00

P6 Posters

Poster Session | Location: Mahatma Mandir Conference Centre, Gandhinagar (nearest Airport: Ahmedabad), India

Inter vs. Intra-ELM Tungsten Erosion and Transport from the Divertor in DIII-D High-Performance H-mode Discharges

Speaker
Dr Tyler Abrams

Scalings of Ion Temperature Gradient Turbulence and Transport

Speaker
Prof. Paul Terry

Towards a predictive modelling capacity for DT plasmas: European Transport Simulator (ETS) verification and validation

Speaker
Dr Par Strand

High confinement in negative triangularity discharges in DIII-D

Speaker
Dr Max Austin

Disruption Event Characterization and Forecasting in Tokamaks

Speaker
Dr Steven Sabbagh

Progress in the ITER Integrated Modelling Programme and the ITER Scenario Database

Speaker
Dr Simon Pinches

Implementing a finite-state off-normal and fault response system for robust disruption avoidance in tokamaks

Speaker
Dr Nicholas Eidielis

ELMs onset triggered by mode coupling near rational surfaces in the pedestal

Speaker
Dr Ahmed Diallo

DIII-D Shaping Demonstrates Correlation of Intrinsic Momentum with Energy

Speaker
Dr John deGrassie

Error Field Impact on Mode Locking and Divertor Heat Flux in NSTX-U

Speaker
Nathaniel Ferraro

Measurements of high-Z divertor impurity sourcing and divertor leakage using isotopic tungsten tracer sources in DIII-D

Speaker
Dr Ezekial Unterberg

Self-driven Current Generation in Turbulent Fusion Plasmas

Speaker
Dr Weixing Wang Wang

Kinetic Simulation Studies on Multi-ion-species Plasma Transport in Helical Systems

Speaker
Dr Masanori Nunami

Nonlinear gyrokinetic analysis of linear Ohmic confinement to saturated Ohmic confinement transition

Speaker
Dr Lei Qi

Parallel Energy Transport in Detached DIII-D Divertor Plasmas

Speaker
Mr Anthony Leonard

Simulation study of electrostatic potential generated by NBI and its effect on the neoclassical transport of carbon impurity ions in LHD

Speaker
Prof. Hiroyuki Yamaguchi

En Route to High-Performance Discharges: Insights and Guidance from High-Realism Gyrokinetics

Speaker
Dr Tobias Görler

Parametric study of the impurity profile in the Thailand tokamak

Speaker
Dr Siriyaporn Sangaroon

Physics-model-based Real-time Optimization for the Development of Steady-state Scenarios at DIII-D

Speaker
Prof. Eugenio Schuster

Extending the boundary heat flux width database to 1.3 Tesla poloidal magnetic field in the Alcator C-Mod tokamak

Speaker
Dr Maxim Umansky

Injection of Multiple Shattered Pellets for Disruption Mitigation in DIII-D

Speaker
Dr Jeffrey Herfindal

Numerical simulation of high neutron rate JET-ILW DD pulses in view of extension to DT experiments

Speaker
Mr Giuseppe Telesca

Critical Processes of Tearing Mode Entrainment in the Presence of a Static Error Field

Speaker
Dr Michio Okabayashi

Ion and Electron Temperature Predictions based on Thailand Tokamak Plasmas using CRONOS Code

Speaker
Dr Boonyarit Chatthong

Favorable Impact of RMP ELM Suppression On Divertor Heat Fluxes at ITER-like Conditions

Speaker
Dr Alberto Loarte

Study of evolution of trapped particle undamped coherent structures: An important agent in intermittent plasma turbulence and anomalous transport

Speaker
Mr Debraj Mandal

Quantification of Radiating Species in the DIII-D Divertor in the Transition to Detachment Using Extreme Ultraviolet Spectroscopy

Speaker
Dr Adam McLean

Machine learning for disruption warning on Alcator C-Mod, DIII-D, and EAST Tokamaks

Speaker
Dr Robert Granetz

Transport of collisional impurities with flux-surface density variation in stellarator plasmas

Speaker
Mr Stefan Buller

Dynamic Neutral Beam Injection as a Mechanism for Plasma Control and an Actuator for Instability Drive

Speaker
Mr B.A. Grierson

Fast ITER-relevant low-disruptivity rampdowns in DIII-D and EAST

Speaker
Dr Jayson Barr

Rotation Profile Hollowing in DIII-D Low-Torque Electron-Heated H-mode Plasmas

Speaker
Dr B.A. Grierson

Observation of efficient lower hybrid current drive at high density on Alcator C-Mod

Speaker
Seung Gyou Baek

Development of a High-Flux Fusion Neutron Source Using Recent Advances in Technology

Speaker
Prof. Cary Forest

Confinement in stellarators with the global gyrokinetic code XGC

Speaker
Dr Michael Cole

Global Alfvén eigenmode stability dependence on fast-ion distribution function

Speaker
Dr Mario Podesta

Application of the Semi-Implicit Numerical Method on the Radial Impurity Transport Equation and Determination of O⁴⁺ Emissivity with Two Separate PEC Databases

Speaker
Ms AMRITA BHATTACHARYA

High Performance Double-null Plasmas Under Radiating Divertor and Mantle Scenarios on DIII-D

Speaker
Dr Thomas W. Petrie

Physics of fast component of deuterium gas jet injection in magnetized plasmas

Speaker
Dr Zhanhui Wang

Total-f gyrokinetic turbulent-neoclassical simulation of global impurity transport and its effect on the main-plasma confinement

Speaker
Dr Choong-Seock Chang

Particle Transport from the Bottom Up

Speaker
Prof. Saskia Mordijck

Enhancement of helium exhaust during suppression of edge localized modes by resonant magnetic perturbation fields at DIII-D

Speaker
Dr Edward Hinson

Development and First Experimental Tests of a Small Angle Slot Divertor on DIII-D

Speaker
Mr Houyang Guo

Investigation of fast particle redistribution induced by sawtooth instability in NSTX-U

Speaker
Dr Doohyun Kim

The Effect of RMP ELM Control for ITER on Pedestal Pressure Compared to EPED No-RMP Predictions

Speaker
Dr Max Fenstermacher

High-Frequency Energetic Particle Driven Instabilities and their Implications for Burning Plasmas

Speaker
Dr Kathreen Thome

Observation of Multiple Helicity Mode-Resonant Locking Leading to a Disruption on DIII-D

Speaker
Morgan Shafer

Rotation-induced electrostatic-potentials and density asymmetries in NSTX

Speaker
Dr Luis F. Delgado-Aparicio

Fast wave experiments in LAPD in support of fusion

Speaker
Dr Bart Van Compernelle

Neural-network accelerated coupled core-pedestal simulations with self-consistent transport of impurities

Speaker
Dr Orso Meneghini

Flux-surface averaged radial transport in toroidal plasmas with magnetic islands

Speaker
Dr Daniel López-Bruna

Theory of turbulence driven intrinsic rotation and current

Speaker
Prof. Lu Wang

Transport simulation of EAST long pulse discharge and high betaN discharge with integrated modelling

Speaker
Dr Guoqiang Li

Weak turbulence transport with background flows using mapping techniques including finite Larmor radius effects

Speaker
Dr Julio Martinell

Dynamics of Neon Ions after Neon Gas Seeding and Puffing into Tokamak Plasma

Speaker
Dr Nirmal Kumar Bisai

Access Requirements for Stationary ELM-suppressed Pedestals in DIII-D and C-Mod Plasmas

Speaker
Dr Theresa Wilks

First Simulations of Turbulent Transport in the Field-Reversed Configuration

Speaker
Prof. Zhihong Lin

Advancing Local Helicity Injection for Non-Solenoidal Tokamak Startup

Speaker
Dr Michael Bongard

The universality of inter-ELM pedestal fluctuations in AUG and DIII-D - Impacting the edge profile structure by clamping of the gradients

Speaker
Dr Florian M. Laggner

Analysis and modelling of NTMs dynamics in JET discharges using the European Transport Simulator (ETS) and integrated modelling tools

Speaker
Dr Silvana Nowak

Gyrokinetic Modeling of Turbulent Particle Fluxes towards Efficient Predictions of Density Profiles

Speaker
Ms Emi Narita